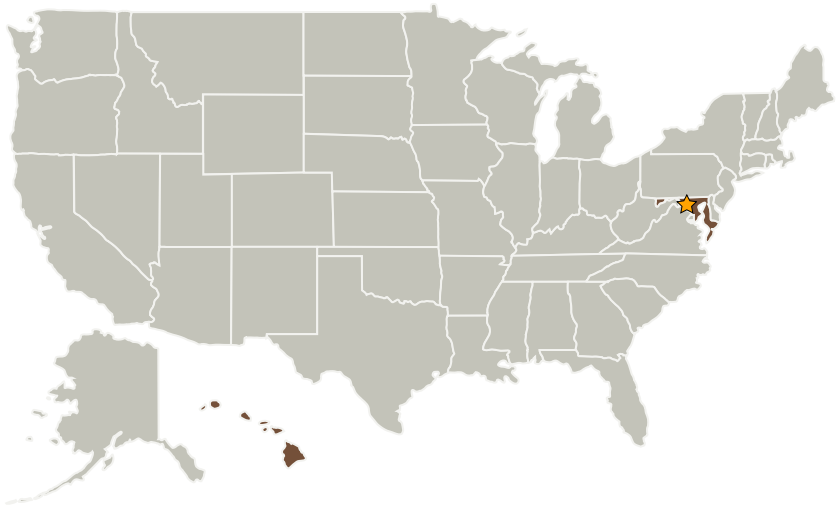
# Broadband Advanced Spectral System, Phase I

Completed Technology Project (2006 - 2006)

## Project Introduction

NovaSol proposes to develop an advanced hyperspectral imaging system for earth science missions named BRASS (Broadband Advanced Spectral System). BRASS combines state-of-the-art, existing NASA detector technology and proven electronics with a novel spectrometer design to provide a compact instrument that covers the full wavelength range from 0.4 to 5 ?m. Applications for such an instrument range from vegetation characterization and environmental assessment to mineral mapping and measurements of trace gases and aerosols, fully supporting important research goals of NASA's Science Mission Directorate (SMD).

## Primary U.S. Work Locations and Key Partners



| Organizations Performing Work | Role | Type | Location |
|---|---|---|---|
| ★Goddard Space Flight Center(GSFC) | Lead Organization | NASA Center | Greenbelt, Maryland |
| Innovative Technical Solutions Inc | Supporting Organization | Industry | Honolulu, Hawaii |

| Primary U.S. Work Locations | |
|---|---|
| Hawaii | Maryland |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## Organizational Responsibility

**Responsible Mission Directorate:**

Space Technology Mission Directorate (STMD)

**Lead Center / Facility:**

Goddard Space Flight Center (GSFC)

**Responsible Program:**

Small Business Innovation Research/Small Business Tech Transfer

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## Project Management

**Program Director:**

Jason L Kessler

**Program Manager:**

Carlos Torrez

## Technology Areas

**Primary:**

- TX08 Sensors and Instruments
  - TX08.1 Remote Sensing Instruments/Sensors
    - TX08.1.1 Detectors and Focal Planes